· Ch had ache Chay on (huper) Secretatios. Lot Bousen of Pennsylvania. Member of the Philadelphia Medical Society. Whatsever man be seary or seabled. Iver XXI. 220. Accember 6th AD 1824.

and the same of the

Scorbulated, is a fermidable and often Jotal desiran, arising from perfect nutrition, and other causes, and characterized bosing outside by extreme dependence of the cetal power, begether with opens of the gentle of the general comments of the perfect detailer, on the skin and increasing the second leaves of the special constraints in long angage; it is securitimes called amplituationally the sea security but it is by no means freeding to season, and was described as an enterine of the land by the nativist writers.

After having status the brief character of the dream, it may be seen fury leximarh, that the every is most excurently and absently, und in feeperlar language; being applied to excurs it accuses of the shin, of a class and perfectly end under a common with the bine source. Although waveness there of the beautiful the character and perfectly medical to mot of the driven, but only beams dranged, like other cogains of the best, in the property of the malusty; and that dream conformation, and that dream conformation, seemed the conformation, seemed present from the conformation, seemed for each accuse of the shin, which was in lapson, titles, and other culturens diseases, would, minuted iver bute. This mistake requires constant and survey as a metter of



nomenclature, but because a great practical over result from it; namely, the administration of antiscorbutic remedies in these outaneous disorders, which cannot be cured, and often organized by them. The scurry property so called, was first accurately described, and received it name in medern times; and it is subject of dispute, as in the case of some other diseases, whether it was known to the ancient physicians, or is a mulady of more recent origin . The fast specific accounts of the disease appeared in the early part of the sexteen the con--tung, when the name of the malady seems to have been Jamiliar among the outgar: but the symptoms were noticed by the early vayages in the founding century; for considerably more than half the crew, who accompanied Vasco de Sama, in his voyage around the Cape of Good, Hope, in the year 1497, were destroyed by this disease. Claus Magnus in his history of the nothern nations, published in the year 1555, has described the die at considerable length, and states that it was known to the inhabitants of Jaxony by the name of Schorbuk, where the Latin term scorbutus, and our appellation sourcy. The term signified seremouth, and was probably applied to the desease in consequence of the springy electations of the gums, with homorrhages, and leavening of the with, which are



among the more severe symptoms of the complaint . D. Lind , however , suggests with still more probability, that the name was derived from a Tolavonic word, Seerb, signifying disease; the searcy being endersie in the nothern countries of Europe, from whence the name was borrowed . Most of the European writers have maintained that, although the ancients have not described the symptoms of source, as a single distinct dissan, they have mentioned several concurring symptoms, which can seavely be supposed to belong to any other make - ady . Mippocrates was an accurate observer of diseases, when describing the desenses of the splun, mentions some symptoms which accompany the enlargement of that organ. "The colour of the body is changed, and bosomes black and palled, like the rind of a promogranate; the breath is fetil, and the gums emit a bad smell, and fall away from the tath, electrations break out in the legs, the timber are emaciated and the bowle do not discharge their contenty? " chud ugain in his second book of prognostics, he observes, "In then who have tunied spleans, the guns over diseased, and the mouth emits a felial odour; but those whose spleans are enlarged, without any consequent hemorliages, such persons are attacked with ill conditioned alors in the legs, and



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black sears" Here we have an additional symptom of seuny mentioned, vir, the homomhoges which were emitted in the former description. At another time he mentions the symptoms of the (EINE 05 (it array) or bloody cline disease, in morely the same terms. This desease begins in the autumn, and exhibits the following sympe tems . The mouth and teeth emit a felid smell , and the gums sepen - ate from the tatter, and blood flows from the nose; sometimes also select break out in the legs, and while some of them heal, others break out a perh, and the skin about them is of a black colour, thin, and tinder" This may be deemed a good brief description of source, considering the early age in which it was written , and the state of the scine of physic at that lime . Celsus when treating of the affections of the spleen, more ctions this indisposition of aleas to head. "Meira aut omnine non variescent, and certe cicatricom vix recipient." Taulus Egineta and Avicenna as well as other Such and Arabian physicians, describe the Same scorbutic symptoms as connected with turned spleen, but such an clargement is not always tresent, and it is probable that Reprocrates and the ancients who saw the discore but relitere , had generalized too hastily from a limited experience, when they previoused these symptoms as exclusively

A design is also mentioned by Trabe and Theny as occurring in the Monan comine in racticular situations, which can only be referred to source, In this disease, which Pling ascribed to drinking the water of a certain well, when it occurred in the army of Germanicus while execumped near the Rhim, an affection of the gums, with a falling out of the teeth, is said to have been combined with a left of oruscular power in the lower extremities; The also makes mention of a certain herb called Britannica, which from and very serviceable in the cure of said disease, and from the description given of it, it is senerally believed to be the plant which is very well known town, by the popular name of scurry-grafs and Cochhania Oficinalis of Ginnews. On the whole , there fere , we are despoint to believe , with the early writers sopon this subject, that the venny was known to the Loute, Roman, and Aratian " lugarians; although from its comparative unfrequency in Southern alimates, il did not veene so often, or so extensively, as de chain their attention very strongly. That it may occur in any climate where there is a death of fresh Good, is very obvious; for it is found equally at sea and on the land, in Green · land or in the great South sed in beinged towns, in horse countries, and in ships, where Fresh food is not tobe ellained .



The first indication of the approach of sway is an aversion to any sort of muscular spection; a lasiness or strong inclination lesit still or lie in but, which is recompanied with a spentaneous la situate, or a sound free inch and hair throughout the body, and especially in the muscles of the lemb, and loins, like that which wrises from great fatigue, which soon becomes actual Soublesuje, se that the bear exercise, escenally in exanding a descending of Selivity, induces believe and swelings of bouth . With the weeren to melion and deministed power of exertion, there is also one early a change of the com plexion, which becomes pale and bloated, or sallow, especially about the lips and evenies of the eyes, where there is a governish tinge. These lear, eyen fetens, indeed, the disinclination to exertion, and the sullow mentenance, often rootend the apprisach of seurny; while the pratient sats and drinks heartily, and seems otherwise in word health; and the shorty to peterte and difficulty of breathery upon motion, are among the most constant concomidants of the destemper blevery hout it course . ere the desease solvences, other sympe. - lone appear. Among these on the stomacone or mobil condition of the month, is one of the feet that present; itself , The gums become hed and pringer , and soon swell, growing soft and sleonyy, of a livid hue, and afterwards extremely putrid



count turneres, constituting one of the most distringueled yet one of the text, - were. This consists of the text, and the looseing of the text, so which become mountable in their sechelic lend one to turn our extensive term and rain, and wone field and providencements. Terminament in the place new time chieflest temporary in the years well as from the chieflest temporary could as from the mountain or and extensive years and the parts of the bate, where the cuties is delicate, or the conference between an consequence of the up purent life of extension in the velice, and expression in the second or restorm.

Secons this rance the skin also solubres, even of the most staking charactereistics of source. He becomes stry and spected over with discharacters of a
sea, blaid, people, and black have of rances wires, from the petables, or free disk star blaid, people, and black have sea frances, of the view of a hand, becattle,
or larger, such as are browned be the second brown, blan appear admits on
the last and thinks; and sometimes also on the arms, beard, and trends o,
the last, and consecuted, though more ranks on the break and fire They
consist and of affection of bland sucher the webster from the respective of the
small or fate. She the drives a advance, this lasty and lefter chesical made
the select become still more manifest, by the Juguent and prefer bleedings
which are liable to cour from despread facts of the buty, especially from



the new, sum, stomach, level, lung, kidnies, and bladder, and from the alow and Jungow excressencies which wiese on the senfuer. In some patients, the homorhages from the bounts are accompanied by sever pains and dearthou; while other sutheset either a purging or gripes discharge quantities of four blood by the unus. I the morks of laxily appearing The ordenators swelling which takes place in the los, becoming frest about the fut and untile; which, however, is more painful than common ana. vareto; and retain longer the impregion of the finer. The officer remark ably also, in the great facility with which the elightest brives and ecounds Augenerate into foul Jungous when, as well as in the sportaneous appearance of week where, and the breaking out of long healed were, and even the disunion of eld fractions in bours. Thatever farmer complainty of Tind observes, "The patient has had, especially bruises, wound; be; or whatever present disenters he labour under, upon being afflicted with the soung, This old complaints are removed, and his present rendered worse? Indeed the scurre often first shows itself be the changes in diseased parts. Thus when a person has had a preceding Jever, or a tedious sickness, by which in has been much exhausted, the gums for the most part are first a freeled, and a lassitude constantly attends: whereas when one has been confined



from exercise by having a fractured bone, or from a bruin, or hurt, there weak and debilitated parts become about always first perbulic. As for example , if a patient labours under a strain of the ankle; the by by becoming swelled and painful, and soon after covered with lived spots, gives the first indication of the disease. Und as old alous on the less are my frequent among seamen, in this case lekewise the legs are always first affected, and these where put on a scorbetic appearance, although the patient seems otherwise perfectly Trealtho, and preserves a fresh and good orlow in his face? " The effect of the disease upon former maladies is strongly defected by the author of lord Anvows orgage . But a most extraordinary circumstance , and what would be rearry ordible upon any single evidence, is that the sears of wounds which had been for many years healed, were fored open again by this unwhent distemper. Of this there was a remarkable instance in one of the invalid, on board the Centurion, who had been wounded above Jefty years before at the battle of the Boyne; for though he was courd soon after, and had continued well for a great rumber of years past, yet on his being allowed by the source, his evounds in the progress of his disease, broke out a fresh, and appeared as if the had never been healed. Any, what is still more astonishing the calles of a broken bone, which had been completely formed for



a long time, was Jeund to be heardy clipsbud, court the Jevature seemed as if it had never been consolidated. The ulass schick occumed in the ligs of the sembulic patients on this occurren, on said to have been of the sensol him, attended suth settle bones and such a lexiciance of Jeungens flech as spiclisted to no remedy.

The close of these scorbatic selens are of a livid colour, and preffed up with ' lungous eners crinces, which are not inafelly called by the vailors, bullock's liver, since lethis substance, when brited I Lind says, they bear a near resemblance, both in consistence and edour. They often win in the course of a night to a moustous size, and although destroyed by courties, or the kin fe [in which last can a copious bleeding commonly ensues] are found at the ment droping a land a reces, I Lind a Henry however, that the continue in the "or dition a considerable time without tainting the bone" These scorbutic uleurs, which are sengular und sin form, in their character, are destinguished from all others by being so remarkably of lensine, bloods, and Jungous. In addition to these affections of the lower extremilies, in the advanced stage of the seems. "the patient; most comments low the un of time links, having a contraction of the tendons in the ham, with a seulling and pain in the joint of the lence . Indud, a stiffnely in these tendons, and a weakness of the lines ,



ablear fritty early in this diesare, generally terminaling in a contracted and well is jour!"

In the progress of the voury, the patients commonly complain of pains which are of ten moving from part to part. Tome complain of a general 'rain in their bones, which is most violent in the timbs and loins, and especially in their joints and legs; and a pain with tightness and of spression in the breast, is very common. The head is seldom or never affected, unless the patient is Severish, which is unusual; for as D. Lind well of news, the distant is altoother of a cheonic nature, and lever may be justly rick oud among its adventitions symptoms. His remarkable, indeed, that in the worst stages of the sewing with all the severe symptoms above described, with rainful spreading alors of the surface, with contracted limbs, in mon ruges, sporgy, restrict, stinking gums, over un with sprouting flick, and often duply ulwated; with inability to make the least muscular ever tion, without fainting or perhaps dying; get the patients, even in this stage have a good appointe, with their source entire, and, although casely dejected and made low spirited, yet, when in bed, they make no complaint of pain or seekness, and appear to be in tobrable health. This singular characteristic I the disease is well deficited by the author of lord Anson's royage before



emoted. First of the species of this disease, seen in almost and instance wenderful for many of our peciel, though confund to these Transmooths, a pricared to have no insecurities able share of health; for they ale and chank hundrily source changed and to the or the source we seem of the last mount, could not be last to the source with a least source part of the ship to the char, and that in the last mount, though it such sources and of the ship to the char, and that in the last mount, the forest of the ship to the char, and that in the seems of sources that each she dick, And I was seemed the such sources to the could be a dick, and the was seemed with the dick, and the source which find the fully to these who were able to work the dick, and the down with the duly, to single town stad in an instant, on any entersowns to and with this returned by the work of the work the same section of the source of the source.

Led Mortem Examination

I I sent has given, the result of his observation, done in from the defection of a considerable number of intens so this fals (underly from which it appears that the true sembatic state, in an extranect stage of the dencess, censist in ammions of fusions of blood into the altertan instances of much facts of the body, super final asserbles internal, particularly theyems and



the ligs; the testine of the James heing advenot entirely althous and the speciently dependent state of the latter endering them rade; of all others in the while body, the most upst to receive and extend the stagment blood, when its crais comes to be stastroyed; and it less that glutiness quality which, during health, hinders it home comprise theoryle the press on the coats of the blood copies, or though or halest extensible. I desprise twist price when, expecially in the legs and breast, was frequently but not always observed on the subject that were channel, was frequently but not always observed on the subject that were channel, and the pericardium was sometime.

Whe Yeary Gibers was visual so extramely has and limber, and the belies of the immediace the legend thinghe so duffed with the effected story nating beet, that it was about ordered thinghess the impeliant the competible, because or up worth one manched from another. The mysthat the commodified thireffered bleed was amazing; in some bodies it becomes that above to fourth part of the whole may had season to make vehicle; and it often has in large conceilous on the principleum, and in some for instances sometor this somewhat was a limited for the law on the principleum, and in some for instances pender this surprise and depound state of the care was floring parts, the busin alongs a specied prefetly sound, and the viscora of the abstence, as well as there in the thouse, seen in



reneral found quite unconserted. There were spely indeed, from extrava - sated blood, observed on the mesentary, intestines, stomach, and omentum; but these spots were frem, and free from any mortified taint, and more than one, an effusion Ablood, as large as a hand's broadth, has been seen on the surface of the stomach; and what was remarkable, that very subject was not kinson, while living , to have made any complaint of sickness , frain or other desorder, in either stomach or bounds. M. Toupant in his account of the disean, as observed at the Prospetal of It. Louis at Paris, has given a very ample description of the difsections of scorbutic patients. The juincipal 'a honomena described by him were the results of the general extravasation . I bleed, and of the depolution and reporation of party naturally united . Thus the bodies of the newsels were often "ound swelled and hard, from the blood lixed among their Jobes, so that the timbs remained beater contracted; and the epiphyses of the lones seen Jound separated, the cartilages of the stronum seere loosened from their winen with the bony part of the riles, and the ligaments of the joint some coroled and love. To add that the , Musentine glands seen generally obstructed and enlarged, and the spleen three times biggar tran maheral, and fell to prices as if it consisted of coago . whited blood .



Remote Caux.

The protestione causes, or then recumstances winen fundamen fendionesition to the complaint, on wines . Prendere descent whether the aute or chemic kend, zender pusous more bable to the vonery, when the cirties causes exist; and inactivity and indeline greathy Vacilitate the ottack of the malade. Then who are necessions here lovers, or who hove been weakened by low attacks or relapses, most radily fall into soung; and the movines on ship board, who have less work commonly rafter in a rouch larger proportion than the sailors. On the other hand, however, exulsere fatigue and over existion, which achoust the strength. arnell as would shop, contribute to accelerate the attack. sowny . In attention to this point, was one of the most effectual, means comployed by Captain beck for the "wevention of seums among his ones, as well as the acciding of old and misture from which much printiposition to the desire wises . It state of despondency and glominifs of mind contributes also materially to invite and aggravate the sewing: it attacks the descontinued and refuning, while pursus of more charged disposition excape. Hence per hopes newly improped seamen are found to be particularly liable to it; and the inhabitants of besighed towns are observed to be susaptible of its impreficens. The punceful exciting cause of security appears to be the use of a certain kend of deet; and it is probable that every spices of deet, which, wither



from turn delherall of devestion or from containing but little nutriment, Sails to nowish the bute, is expuble of producing the discoverender certain con-: cumstances : we say it is probable ; for we shall her occasion to show Turatter , that this netien is not interely consistent with all the fewets, and is somewhat inconsistent especially with the nature of the remedies . In the desease is most Inquestly oreasioned in modern limes by a sea diet, it has been a simbed to the use of solled meat; but this openion is allowables momens, and has been amply referred by God Sind, Milman and others. It has recarred, indeed, to a great extent, whom salted must were not used, but at has been equally personle at when the dest consisted previo pally of You nacrous or other conformated by glable matters, such w hard bisouts, fras, and bears, or souther died feth or flesh, cheen, Ve. In some represent; must by 9. Stark in his even become, whatever to the offerts of particular enticles of list, sumptoms of securory some induced by living a short time exclusively whom sugar. And Do Nitresches observes, that in the Rupian armies at the suye of Asoph, in 1736, and subsequently in their much to Ocrakow, the severy burailed to a great extent, although their diet did not consist of salt provisions. They had little feel to enable them to deefs their victuals, and the fat indegestible lish of the river Don, being hal evelent, and their bread ill-baked 'rentered fraguent richenfr, and alternately the sound. A similar rolamity as



remarked by D. Howev, occurred in the imperial army of Mungary, whent the same period, although the vary had fresh but in pleuty: but their food consislid of a grafe and visual breed, or the Gaunacious matters, and expicially of a sort of funding, culted Tollalseken which was principally caten by the Bokemians, who ever indeed almost the only people who suffered from the source, other is, no tout, therefore, if we examine the history of the malady, that persons judis freset lock, if they live repen any species of entry stible land, whether it be of an unimal or vegetable nature, whether preserved with salt, or not at all impregnated surthist. - till be easially attacked inthe secury; and then present an observed to suffer the most who make the beest and then endogestible substances. In all then instances, however, bresh sugstable substances ded not probably constitute and considerable bertion of the diet. Other section sauces, however, must confund with this diet to produce the source, represently en its severe daynes . And home whatever contributes to impair the health, and deputs the mind, during the ass of such food, materially recelerates the occurrence of very, and we have already stated the effects of indolone, overfatigue, and the detereffing factions, in fores = disposing the constitution to take on this desease . Indoline and encelente con duce to excite the source, because the hard and endeposible diet just alluded to requires a certain degree of exercise to subdue it in the stomoch . The



influence of exertion was curiously exemplified in the cases of Viere present , who have involved in high nothern talitudes. The sound was the source of Tatality which they had to do and it is angular, that there who soent proposed to spend the winter in these freen climates, and supplied with free . visions, clothing, Jul , It. have uniformly died of the secury; while there who have been accidentally left, without any provision, have escaped that disease and enjoyed good health. In 1693 two trials some made by the Deelch, of establishing winting places at Shib begon on the court of Greenland in Pulitude 79 or 98. Leven sailors were left abeach, amply Turnished with every article of elething, provision, and utanils, thought medsay or useful en such a vituation. The journals of both companies are preserved . The men at Grunland began to make a constant fine to sit by in October, served out this ullowance of brandy , and now and then Welled a bear : but in Murch they soon all ill of the scury, and on the 16th of April the food man died, and all the rest were entirely disabled, except one burn. This poor wordch continues the journal to the last day of April, when they were praying for a spendy nelocode Your their missies. Huy socreall found dud. They man lett at Spite bergen Willed betone for the whole time. The sound appeared among them as early as the 2.4th of elevember, and the first man deed the 14th of Sanuon



the journal end the 26th of February, and then too were all Jound dead. Accident, however, soon afterwards gave rise to an experiment which had a very different result. For on the same side of Thibrbergen, and in nearly the same latitude, a boat gover, consisting of eight Englishmen, who had been sent ashow to kill dur, ever be some mistake left behind, and reduced to the deplorable new fa city of winting in that dreatful country, totally unprovided with any of the mafrairs. Sating advantage of a large substantial sevoden building, orected for the use of the coopers belonging to the fishing, they rendered it warm and com fort able by building a small one sorthin it, and by deer skin bed to, They ever tolerably supplied with Jul from old cashs and boats, which the broke up, and before the cold weather set in , they laid in a considerable stack of benison , having helled a good number of deer, the greater rant of which they rousted, and stown red in barrets, reserving some raw, which became boson. This venison with a Suo sea- Tiorses and bears which they betted from time to time, constituted This whole wenters promision, except a very unsurvery article , which they some obliged to make out with, at first two and afterwards four days in the sun ky which was what's britters, or the scraps of fat after the oil has been prefeet out. Their only drink during the whole time was running water, procured from beneath the ice on the beach, till Sanuary; and afterward, mon inter



meltal by hel wons. The melanolidy of their situation was acqueated by the absence of the sun from the Loweron, from the 14th of October tothe 3 of February , of which period twenty days were passed on total durkness . They contribut, however, to keep their fin and lamps continually burning during this twent. At the approach of string, they had the good Section to hill several white bears which proved excellent food; and there, together with wild food and foxes which they caught, enabled them to dispense with their Justing days on the suculty fritters, and soon improved their signer. Morn this simple fave, without spirets or farmented liquors, they come all to pass this signous wenter, unaffected by severy or any other disease, at the return of the ships on the 25th of May, they all appear to have be nin health : and all returned in safety to their native country. A semilar circumstance occurred to Your Russians. In the year 1743, a Russian ship of East Thitabergen was so enclosed with in , that the crese afterchanine of being obliged to winter there, sent four of their men en a boat to suk for a hut, which they fence to have been exceled mear the coast. The hut was discovered; but the men on returning to the shore, found all the ice cleaned away, and the ship so longer to be seen; and indeed it was sever more heard of . Their diet and mainer of living on the circumstances proutearly connected with my subject . After fitting up their hat as comfortably as they could, and laying



in drift wood, collected on the shore, for Jul, they turned their attention chiefly to the procuring of provision. There species of animals, which they cought and hilled by vairous devices, constituted their whole variety of good. These even seindur, white bears, and lexes. They best they at almost raw and enthout salt; using by way of bread lait, other flish, dried hard in smake. Their deink was running nater in the summer, and, melled in and snow in the sinter. Their premoutions against the scary ever, sevallowing raw freeen ment he ken suto bits, drinking the worm blood of window west willed, cating searry-grafs, when they could meel with it, and wing much exercise, By the somans three of them remained entirely free from this disease, during the whole of this about . The fourth deed of it, after linguing on to the sixth year. It is a marked that this puron was of an indelent disposition, and could not consur his accesson to dunking the reindus led . They were strong and most the at the estern, but by habet had contracted an inability of rating bread, extrinking spiretions liquers.

Other circumstances, both on ships based and on land, by impairing the general cigars of the centertalistic, conspice to fundace the sawy. Thus it has been charrent endemin at particular places, while others, when the same date was used, remained enterify for four it. It is chosened, that conversely in all parts of the country, when the will if fund and samp, it roges with the genetist



vielence ; and that the weather has quatin fluene a penit, nathed winder long continued, multiplying the disease, and rainy seasons rendering it quite epidemie and malignant. The effect i certain defenging pagiens, not only me predisposing to the soung, but in exciling and aggravating it, harben strongly manifested . Vander Mys exhibits a curious and diversiful picture of the operations of the passing of the mend during the Jamous rige of Borda, when the soung committed great beave in that teren. Upon the report of lad news, I always spread astonishly; but it was in a summer allegether chicked by the arrival of agreeable intelligence . And the courter of lend Ausen's consectioning "This disease is beken in usually allended with a stronge dijection of the spirity, and with shiverings, trendlings, and a disposition to be seized with the most duadful toemors on the slightest accident. Indeed it is as most remarkable in ull our richeralid coperiunes of this malady that whatever discouraged our peoply or at any line damped their reper, more finded leaded one vigour lette distens per; for it asually hilled those who were in the last stayes of it, and confined then to their hammocks, whe were in montion somewar so, before capable of som hind of duly; so that it seemed as if alacity of mind and sanguine thoughts wee no contemptible preservatives from its fatal malignity."



Prevention of Seury.

It is customary after statise the symptoms and cause of an absence, to bread to present out the precent course, of the smalledy, before tending of the smalledy of come, which should generally be testaced from the considerable of the schools of the science, and the case, however, are can commit sizes of the existence of the presentation of the schools of the science, but he making of the presentation of the presentation of the school days of the sciences by which the smalledy is presented or versions; since these anomalisms to chariest the scaling it the smalledy is presented or versions. The short these presents at the the smalled is smalled in smalled in the smalled in th

The prevention of soung mell consist which him almost be a sum mented about purity price of exchange current, which have already been sum mented about it done, then five, by presenting a dear degree of general braths in the individual arternet to the certaing causes; and appearable by according old and moisture, by means of preface alothing, be; and by according individual and executing on the case and constitute, south hing the about the . The effect of the former are completed in the comparation committees the best of place in a chapt of mary which the comparation complete or from the petty of five sin a chip of mary which the come parable according. The channel flut, any Di ablumary whose of the bound of hundred muse and consequent landed at hundred muse and fluteth mith mung, that yet among these there he have been a fully of five:



How does the condition of the petty officer from that of the common sails? The one as well the other is obliged to live on the ships prousion, They only dif-General is, that the pathy officers steep in close births, as they are called, south convais many around, in which they are shellered from the inclimencies of the weather. Besides the advantage of war on cabins, they are more wormly clad, and having a greater plenty of clothes to shift, they are leptiable to centime. wet, or to be st unclean as the consmon men? But the security from sound, obtain at be Mention better prenty of general health, was most stickingly manifested in the judicious manugement of Capitain Cook, by which he was enabled to repeat the voyage, in which the venery had proved so falal to lord Anson's crew, without loing any man by that disease. The great navigator studied and enforced the subsofger . eral health with great a friduity, and his sever from somplete. Hereas estimath careful to quard against the too great faligue of his men, and to seen them as much as regible nom the offeels of cold and moiston. In the first place, he diend red them into three watches instead of two, [except upon some extraordinary occasion] by which means they had eight howy nest for your of duty, and did not get the broken sleep, which men in their setuations have generally obtained. They had they time to would their strength before the were summoned fendere to their labour, and they were likewise thus lep exposed to the weather, than if they had



Form at world is and exceled. If the men get and, the Seat generally any dethis pas vided to ability themsenders. The house one thinks over taken to back the ships along and dry believes which, the house some seed and between decks. The house marks and bedding, comy doe that was Juin, some seed and returned seven part mught be experted to the air. Whiteless the enterinary mathets of some hing and recepting the decks. Captain Good but some part and a people of some hing and recepting the decks. Captain Good but some part hele and a people of some little and coursed several freshish the sense has been as a hilm sow, and escentioning it openitions the decks that some him town, and escentioning it openitions the little at the common air to make it airs and page through the frather hands and page there when the sense him the common air to make it airs and page through the sensitive was, by an average over his deck; while in his course senter the antitatic excels, In Suit a coal freezient of a substantial weether stuffs with the addition of a head to cover this him head.

Captain book also attended to the sentiment of his sum. Have and eated need a greater afficience on the stands, and so plantiful supply of senter sun advange on fully provided by frime. Vall need to; suited, may be resident sound some by distribution, so hick of prince of of ote salar protes and much be meated, sent pathology of sentended and much a meater such from pathology or with abore and aid juice. This method, however, some act however to lighting books.



In attending to the diet of his men, he would not suffer the fat, which is boiled out of salt but and pook, to be given to his men, as is customary. It did not escape that saqueives officer's notice, I hat such only endiorstible mallers had a great lendency to excite sourcy. Thus then by an attention to clean · lines and ventilation, by quarding against fatigue, cold, heat, sect, to, and by becoming at all times plenty of Fresh water, Capitain Gooks seamen lived with impunity on their salt provisions . And a similar instance is mentioned by 61. Tooller, in the case of the South hill, a ship of sisty four guns, with a complex amont of fine hundred mere, in hord Reducts bleet, which did not low a man, except from severals, for the space of live years and a half. "This shit was in a very sickly state when Gaptain Molley look the command of her, but by the complete med of description, and attention to the chamber of the our and ship, which the established, health was preserved in a climate reputed to be unwholesome; and the of the , when reported to the hardships which follow a state of Juguent or constant preparation for action? Even when the civiling runses exist, then fore the seway may be presented by extou ordinary and con linual descipline in the case of the general health. Senething still further, has been attempled, in the way of prevention, by diminishing the extent of the chief existing cause; although it may be questioned, whether much



has been effected in this way . The Dutch were sufeposed to have present their seamen from soung by the use of sour knows with their salt provisions, and this article was recommended to the British navy by Do Lind : but it is prepared by a vort of Gamentalion, which produces the acidity; and this sort of actous aid, the product of forme station does not a pleas to be a substi-- tate for the wint of fresh resetables. D. Norther, however, is of opinion that the wirlus of this substance as an antiscorbatic are very trifling, and that it has cost the British povement will imparation more than it is worth. Another sul - stone has also been emplored in the Butesh fleet, as a substitute for fresh vegetables in preventing searcy, on the ecommendation of Do Motsonder, viz, the of sever or extract of malt. It was recommended whom the hyperthetical melion, that it contained much of the cementing frame fele, as he called it, or that principle, or in caised is which, when present in animal and vege = table substances, present the process of putur faction; and that by restoring this principle to the blood, the diseases, which aim, like severy, from a putied dias - thesis, would be prevented and ound . The truth however, is, that there is title or no carbonic acid in this substance; and the favourable accounts received at the admirally of its beneficial effects, which indused them to establish the un of the expense of wort as a part of naval victualling, are labe a seribed rather



to its being a wholesome, nutilious, and digestible substance, consisting principally of vegetable mucilage with some wyar, than to any specific antiscorbatio properties. This appears to be the opinion of D. Notter; and De Lind speaks of it only as, "a very nowishing liquer, sullada for tid for scorbutio patients?" The following is an excellent mode of prescribing the mast in substance; when evanled for use, it is to be ground in a hand mill, and the infusion prepared from day to day, by pouring three measures of boiling water on one of the ground mult; the mixture being well masked, it left to infuse for ten or twelve hours, and the clear infusion then strainced off. The patients are to drink it in such quantities as may be dum ed neafsay, from one to these quarts in the twenty on hour; a parada is also to be made of it, be adding biscuit, and currants or raisins; and this palatuble met is and by way of sold food. This course of dut, like that of the recent orgetables, generally keeps the broods sufficiently open; but in case when costinuels nevertheless presails, gentle laxatives must be interposed from time

Analy breased Jonner-bas anals Joon a descript of the tops of the Jonner-Jir and melajus is an excellent that include: I and in the same sang that the sud deer, and will be bound of organis of forces, and then been may be entireleded.



· Where the tops of the spruce-fir are not to be had, this beer may be prepared from the exercise of spencer as it has been called, an article which beeps easily for a great length of time. Daten selecations where neither the one nor the other can be had, a most salutar mel may be prepared from Catmeal, by infering it in water, in a wooden refeel, till at Jerments, and begins to live sounish; which gum erally Tupping in moderably worm weather, in the space of two days. The liquor is then strand off the ground, and boiled to the consistence of a jelly, which is to be eaten with sine and sugar. When the malt, spruce for to, cannot be pro count, espicially in lound of orfuls, Turgeon Thempson meninered as an excellent substitute, the treacte bour, or Sufe-beer, and for which for for herecommends that a quantity of hups and molasses should be taken on board of ships, which are likely to be long seithered refushments; could from there a liger or not only extremely salutary, but pleasant may be prepared at sea with very little trouble or expense, by briling the prespection of 10 feweres of hope, to 288 gullons of water; and adding one hundred weight of medajors, when the descrition is sufficiently cool . They should be well stimed Together, then turned into cashs, a little year added, and left to Jament. He also speaks of sorter in the highest terms as a presentine of secury, and relates the happy effect, it produced in the one of the Jugate Richmond, wherever a Hicled with this disease. " He did not hose a man for a fortnight after



the use of the perting schools went be alliabeled entirely to the petation enflower of that lique. It is nothing for some time before, now after that pains did a creak pay cultural energy and the delet of mation? I because allowed was properly of pertable sealing of persons to the man, liabeled beauth and alone a lateral surjectly of pertable seals; of a hard the man had gowered, an owner, there estage is the week, both of seals of mother persons and sometimes of exact sound to time of time, and would sometime at exact sound to time of time, and would sometime the contained of the performance of making the performance of the performance of further advantage, they seem from the other with sugar on him of the time and was a first of further advantage, they seem from the time out the sugar on him.

I better with which yestern of the counted with it the owner came contently great gaining by the exchange.

There is a nother species of repetable marker however, which up pears a serie man near term pile the ractivates on between which beech regetables a ffeed, and which is seen from any among the acids of limes, timent, and other series of the series of the series of series of chains and was now are now considered neumons, the series of s



Cure of Seurvy.

When the preventive measures have been neglected, or ineffectually comployed, and the testare harabrady a parent of is our difficult to rememil, while the receims tances of diet, Ve, remain unchanged. When there circumstances, however, admit of a change, experience has shown that the curry very simple, and often very expectations. A pure, dry, warm sir, with the use of fres's vegetables, almost of any sort, commonly proves effectual. The instinctive Julings of the sick, indeed, Hinch them strongly to the sear of the chief remedy; for there is perhaps no desire se intern arthat which the mobile ration of feels for the sen of green orgalables, freely, and ocid; insomuch that the sailors of lad Anser's ship greekly decound the grafs, which was the Vist orgatable maller of tained . The vegetable and fruits which con . tain the greatest propertien faced, are the most effectual comedies for the sumptons of sea-scurry; whence some and such like plants, but above all limes, lemons, oranges, apples, curauls, to. act in a manner as specifies in reliving this design. All succelent orgetables, and there especially which are of an asomatic nature, are unful, particularly when combined with the acid ones; whence soury. - graps, horse radioh, crepes, and peers bain, or ranked among the antiscorbuties; and numowed plant have been specified by different writing as properfied of special virtues. On the whole, however, the acid juices appear to be the most



speeds and effectual remedies for secury, especially thou which approach to the nature of the citie acid. The testimonies in Jaour of the specific ouras whire powers of these acids in scurry are someonerous as to leave no doubt of the Jack Com Do Lind, with whose Expectheris respecting the nature of the discount the fact was not quite compatible, admits, in his postorift, their stilling office easy, "To what has been already said of the virtues of oranges and lemons in this desine . There now to odd , that in seemingly the most despreate care, the overl quick and sensible whif was obtained from lencer jeine; by which I have relevoned many hundred patients, babouring under almost intolerable pain and affliction " You this disease, when no other remedy sumed to avail." He also mentions, that the terror juice when given by itself undituted, was apt, especially if overdend, to have too irolent an operation, by recasioning prair and sickness at the stomach, and sometimes a comiting; theusene found it necessary to add wine and sugar. A Junt of Madeira wine, and two conners of sugar, some fuch to Jour ocences and a half of juice, and this quantity was found sufficient for weak patients to use in beauty Your hours ; such as some weak suppose a little of this frequently according as their strength secould permit; others who were stronger took about two ormes of it every two hours and when the patient grew still stronger, they were allowed eight owners of lemon price in twenty Jour hours.



While this very pleasant minture, which is both a cerdial, and an antisepbe, may be had it would be readle for to think of presser but any other that when the fresh juice cannot be procured, we must have recourse to such other things armay be obtained. But the various, mudes of combining and administering there, so as to render them prefectly agreable to the stomach, must always be regulated by circumstances, and therefore it will be en vain to lay down partierular directions; since all that we have to do is, to fix on such fruits and other Gresh vegetables as can be most conveniently had and taken, and contine to now them in then "ams, either alone or boiled up with flesh-meat into jours, that well allow the patients to consume the greatest greathers IN, Frother let This the extraordinary can of then norbulic symptoms by the use of their acids, over though at the same time they produce a very law or purging state of the bourly, and some degree of emerication; while on the other hand, the we of fresh animal fied, strong boths, and since, produces comparationly very little benefit upon scorbatic per sons, although debility is the most marked symptom of the denane. This diet and the Temeran back will often produce me Javourable change se pour scorbatio selvery, and the overt powerful stimulant applications will not after the condition of these Mes : yet in lef than twenty four hours after the me of lemon juice, the levid com splenion of the very with the black clot of blood on their surface, will often desappear,



and they will put on a flind and healthy character. The farther effects of the linen acid on thus described by It Toother . The patient in the incessorate stage of the disease seems to gather strength even from the sight of the fruit; the spirit are extelliarated by the taste itself; and the fines is snattened with motions of the most whaptions lieury. The gums are gradually hardened, and the teeth field in their sockets. The dull eye and bloated lives in a few days pent on the clear healthy complexion, which also extends to the whole surface of the body. The absorpt -tim of the effund block in definent fearly goes on rapidly, and by marking the spots, you may culculate the progress of the absorption, and the course of the discore. This absorption bespeaks a degree of stimulus communicated to the hymphatic system as well as the sanguiferous, as soon as the blood has received a sufficient quantity of the overlying frame ple From the effects of the iner upon the bile, the celeur of the stale is chaused, and a low state of the bearts is the consequence. But it is to be observed, that this lavily of the intestines may be moderated by giving the Said in smaller quardelies , a spendy care, however , demands that they should be rice at libition, and the quales the number of bonows taken in a day, the moony will be mon rapies in perspection? While on the on hand, there fresh regetables and vegetable acids speedely remove the symptoms of seway, experience has "willy ascertained, on the other, that the medicanes called loves, such as the



consumal and, steel, Penneim buch, and the raines asystell hitter, which have also been countered as the less plais, or antidels of facts freding any effective a temperature of affecting any ejectual a high. And seine, which has sever french and entant the see seems less fevery good but a momentary dominary but it does not retain the driver, over affect any permanent related and. It was about prevent, bee, in level absenced flow is at level about a more fever about a substance wind fish, even with plants of Joseph water, dut not tend to anest the property of the driver. The series Morning a please to be experienced sends on the property of the driver.

Her speaking of the prestificantly configurates of season, we have secondarised blue officed of the definition frequency and ever humaness to account in on the other human, and ever humaness to account in on the other human, the remarkable effects of high, and the exciting profession, in wide of the case of the season. The following strikering example of this accounts in a thought ourse of the season. The following strikering example of this accounts of the minutes leaded by bander Hoge or his
account of the disease, when or occurred string the sings of Beader, specially
despised and death around in the Bid offing 1833, when the prince of
Crange human of their distrip, and understood that the city tension danger of
being delivered up to the enemy to the soldiers, he seeks their addition to



with medicines against the sound, said tobe of great price, but of still quater efficiery: many mouning of to be sent. The effect of this desirt was truly artonishing! Three small pluals of medicine even given to each physician, not enough for the recovery of two patients . It was publicly given out, that there ofour deales were sufficient to impact a healing inter to a gallon of liquor . He now displayed our wonder working balsams . Nor were even the commanders be tinto the secret of the cheat put a from the sol. actions. They flocked in orounds about us, every one solicities that part might be reserved for their use. Cherofulue's again ap reas on ever countinance, and an universal faith prevails in the soverign victies of the remedy. The harby now began to spring up above the ground, we of these made decections, to which worm word and Campber when added, that by their 'sevalent Haven the medicines might appear of nomeon efficiency. The stiff contracted limbs were aniested with war melted in cape seed, or linseed il. The invention of new and untried physic is boaded; and amidst a defect of comy newpary and weeful medicine, a storage medly of drugs was compounded. The effect, however, of the deterior was really asteriothing : for many serve quickly and perfectly recovered. Such as had not moved their limbs for a mosth before, were non walking the streets sound, upright, and in perfect health . They bearted



of their case by the primas senerty; the modion of their joints him, extend by a complet faction such is, and me some of stuly seet proforming at office, or at least suth a small a picture. Jour maticine, Many who declared the 4thm had been remotered serves by all former senerales schick had been administered, cover-contine for the fact of the third primary with the moly governal surprised, the totalogy almost be the Naving brought to them, I what see affermed to be then a gracious branch cover?

Many assurdies have been mentioned by different writers, who have treated of course particular segond corresponds, such as Teamen hages, spengy games, alcountains, charchard differency of the landers, We have been detailed, but it amenaforms to the ordinal them; ince the only effectual wester of always the following particular symptoms is the ordinal case of the emobilities wester of the tendency wester of the constitution of the tendency and the vertical land, the coarse bath of the best of the south of the boundary and the ordinal land, the municipal the municipal the second different breathing and eightenis about the breath bill law much is not the different breathing and eightenis about the breath bill law and the while train of a particular and the while train of a particular and the while train of a particular or and the while train of a particular or and the while train of a particular and the while train of a particular or and the whole the second of a particular of the base when the the second of a particular of the second of a particular of the second of



opening the proce of the slow and extensing the surface; but this is tifling in the the complaint. It is only the produce of Just vegetation, that can ast, a minister to him the wiving contact; and a Just tenness will do were to, a funge his august than the exhetemt of Johan mass."

Proximate Cause.

Unious Inspectures Come been Gramed at different lines, according to the journal of the plane and for the popular cand for the popular cand for the plane and disease; and like mert other medial beyond here, they have Varyed chief popular is presented to mention by problems, they have Varyed consistency of the blood or eventualing fluids, and by the other to mobile changes in the property of the blood or eventualing fluids, and by the other to mobile changes in the property of the blood or eventuality fluids, and by the other to mobile changes in the property of the blood or eventuality in moderation, and considered considerable of fluids; and making the of the of the subjectives exclusively, and not a title in giving any salisfactory area of the subjectives.

All the old evides, being of the Teamand school, maintained the decline of a sembed state of the Jeliet, as the presimate cause of secure. Beschwert and his addievent; refund the senae to an animony of the Jenet, sebuch they impress would be ful difficult graphy according both definal anns which



preduce it; thus it would be an alkaline occurring from salt and putied provisions, and but water, and an weil accomen ben bod soits of bond a vegetable gluten, combined with a sexentary life . Do Callon, les, though he relinguished much of the Summent fratherign, was de ciencen that some was the effect of "a freter-. naturally ratine, and consequently de polond state of the blood "which was occasions - 1d by a greater ordinance towards feeler faction, from the absence of the correction of orgetable matter. And ver John Private, maintained a semilar doction that seary was the usalt of goodwally accumulating perturbation" in the blood, from the putersonery of salled food, which he deemed the chaif cause of the disease, In Jack, the general opinion, for a long time, decoud source the most converteristic exemple of a 'entired disson . And this justicity of the fluids was inferred from the felor of the breath, and of the selects; from the black colour and loose consistence of the blood; from the extension humanhages, from the perfel blotches, on the sken, It. But this is a gratuitous and exencengenfor ones: from we have no les authority than that of D' Lind, who made numery experiments on the subject, for afecting that blood denier from the scorbation patients, even in a dying state, descours ne sensible test of either acrimony or besteedily, by the taste or smell; that the secum of each blood is as tasteless, as In while it an egg, and without odeur; that it comulation the air necessar than



the blood of breathy presence; court that then alices of mouther, in more sent in this evenes, continued secret and for Jorn watered operating and the serving for serving in health. It leave entirely for Jorn valual experiment, made by D. Toylord, that of the amalice greathy of putry smaller be expected and the bland or forty of a flower of form the blood and the bland or forty of a flower of form the blood and and produces of a shall of a format by the aman of putry sends on the blood and present as health and the sense of format to be sense of format to be sense of format and friend the amale, are to comply some the blood of a present as health for and there are not in use of frield, a more disposable than when they are in health of the same may be vant of their shall. The same responsible placement, so he also for every, "the officiers amen't from the comply of the opening of the formation of physician is the health of the comply of the opening they were such that he day forms he comply decreased in the completed of the greens. For on the stand he day, same person and any comment of made of putrification, they were such the made of formation, one hall be comply of any consequence of the completed of the greens.

Can me account, then, be the phinamena of couragina the climber by retires winning members the medicity to ustain medicit contributes of the hims welves the seem of the medication and on furtised affects the moderated by the medicate of the samplems, of the descense, accounts who seems to be to seem of the consequents of the samplems, of the descense, accounts we let the seem subject and pathological descense, as him is not enough and pathological descense, as him is contributed and parameter them of a such as a section of the section of th



munute detail of the symptoms, with the view of explaining them when tu prescripte of a wahend and impaired condition of the nervous system, and of the muscular imitability . Two has been accomplished ad onat lineth, by D. Milman in an essay on soung and puted Justs. This view of the subject appears to accord better, on the whole, with our knowledge of the Indistance and exciting course the disease above detail &. The convens raineds of dut, under which searny occasionally originates, is ill culculated to produce any particular accimony of the flines; and the day puter and glutinus pudding of the Bohumians on show could not have the same lending to pertufor tion as the salled animal diet of seamen . Met all the substances might equally and from their indigestibility , or from the defect of nutritions matter which they contained, to surpport the strength and vigour of the moving fibre, and would equally contribute, therefore, to produce that languer of the vital powers, which is so conspicuous in the progress of sourcey. And all the predisposing causes, on The one hand, which are principally debilitating cause, Jalique, endolone, sount of sufficient slup, cold and moisture, and the means of prevention, on the other, which are such as support the general vigour of the constitution, moderate exercise, sufficient sleep, your sir, warm to, to concer in concing the state of the moving Titre to the source of the morbid sympetoms. The same opinion is also Janther supported



by the extraordinary in fluence of mental emperium, in protecting and in present of the second of the mental of the mental of the second of the metal of the second of the metal of the second of the

Such their, appears to be the atendage, in print of argument and analyze, which the dectrine of several volus people was that of accoming and pater. Jackin with Joints. Neuralluly this theory is by me means salesfactory who is some means and sold a secretic in some means a continuous and act a secretic inest Jack that érangis not occable by their means which a oppear to contribute in
general to the stamps in all careth by their solds, sinch a spopear to contribute in
general to the stamps the and activity of the solds, sinch a fresh animal food, soin,
back, sings, ve, while it is specially and coloring armond by the on of one table
wild, while contain me matrition quality, and are or for it, it take if overlanding



prover, that they even interessence are according which they care the deserve. In tenths on can give an existing patent theory of the deserve, but one perpeture of a condition remarks and convenient one knowledge of the amount of presention, may finish, experient all hyperheurs upon the subject. In this, and in ut other deserve, as presence and churchin are the only grides school to the judicious physician sult follow. The existence accorded pathology of the social period the discourse course of exhibit as hunger and thirst line acts feel and church for a server, that by gratifying three demands the discourse is course, and to bear a deserver, that by and in facility of his consenses the deserver, that by and in facility of his presented feel accounting.

Defore the smallets have been two many be allowed to action on theory, to a brich inserten chamistry has given size, but action appears to use take a semporfeely descriping as there to which we have absorbed placed and insert a semilar opinion. It is declined; and we believe I Declined has maintained a semilar opinion. It is a set for lessely combined on the secret, but is not for lessely combined on the segretable with and gover a contained secret, but is not for animal such stances, but appears to be successed, and some the season of the services we also in the fairness on the services are such that grains are now and sufferent the grains are and surfaces that this engage may be the security for soung and it absorbed for the selected and fluid of the body, the forces was a cause of the

diseaw . This supposition, D. Trotter considers as further confirmed by the blacking of the blood discharged, and by the speedy change to the florid here, which the Jungous abunding aframe, within a Jew hours after the acids have been administered. Hot it is well known, that such a change is always the result of the contact of very gen with the blood, and that it takes place right - larly in the lungs, during respiration, the black blood of the views being conve ted inte flored activial blood by that procees. There is some plansibility on this view of the subject; but it affords no means of explaining the concourse of the symptems, and does not lead us to any constitutional expedients for the ourse. This gentlemen, knings to a conclusion, what I have to say on this subject. It being merely a brief description of the disease in general, with the cause, own, and nature of said disease; as procund from the various authors on the subject. And should this attempt, being in compliance with a rule of the Uniousity, meet your approbation; that will amply compensate for all the time spent, and labour bestowed.

